

SolidsFlow™ Model 6000 Controlled-Rate Discharger



The SolidsFlow™ Model 6000 Controlled-Rate Discharger is an exceptional product designed to solve problems associated with vibratory bin dischargers and the necessity of using screw or rotary feeders to control the rate of feed. With a properly designed silo, the Model 6000 Controlled-Rate Discharger is the only device needed to discharge and control rate of feed. Materials are delivered in a uniform, uninterrupted mass flow.

The Model 6000 operates by controlling material flow with a uniquely designed feed tray that accommodates the flow characteristics of the product being discharged. The tray works with the material's natural angle of repose to prevent any flow when the feed tray is turned off. No Spillage. No run-on. High frequency, horizontal motion applied to the feed tray produces a consistent, uniform flow.

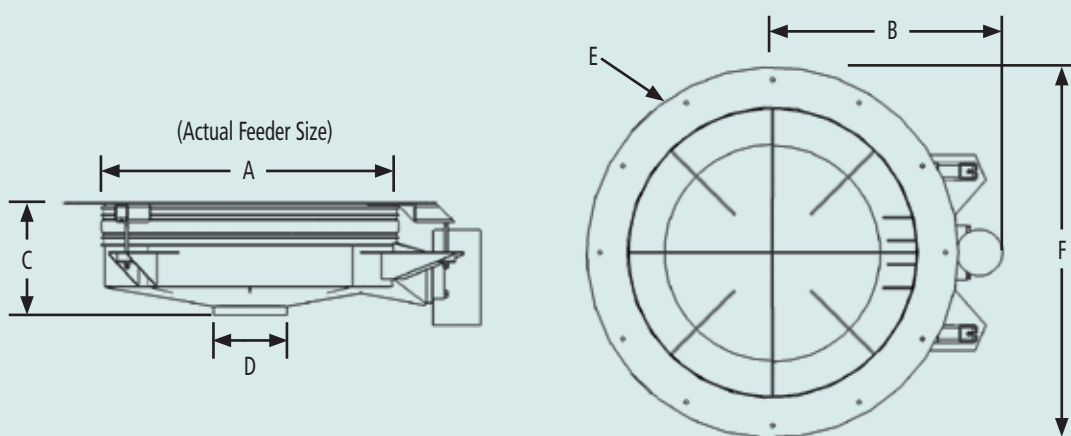
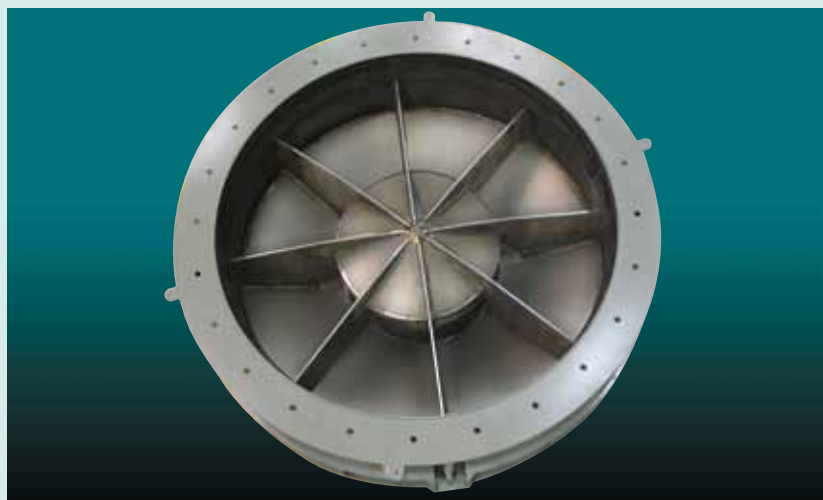
The flow of material is also affected by the design of the silo. Poorly designed silos can cause many flow problems, including bridging, funnel flow, ratholing, flooding, and segregation.

These problems are at times complicated by vibratory bin dischargers, which are known for feeding slugs as well as compacting and segregating materials. This causes inconsistent discharging of a nonuniform bulk density product. The Model 6000 helps eliminate these issues and offers a wide range of features and benefits.

FEATURES & BENEFITS:

- Single device discharges and controls rate of feed.
- Eliminates the need for secondary feed-control devices typically required with ordinary bin dischargers.
- Reliable, uniform, continuous and nonsegregated mass flow.
- Eliminates product compaction, bridging, funnel flow, and ratholing.
- Simple—no spare parts.
- No moving parts.
- With a properly designed bin, no flow-aid devices are needed.
- Feed rates from 0.8 to 1,536 cubic feet (23 to 43,500 liters) per hour.

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MODEL 6000 UNIT DIMENSIONS

Size	Weight	A	B	C	D	E	F	Maximum Feed Rates	Feed Rates (liters)
24"	150 lbs	24.00"	22.69"	14.19"	8.00"	27.00"	30.00"	170 cu. ft./hr	4,814
36"	320 lbs	36.00"	31.00"	15.69"	12.00"	39.00"	44.25"	364 cu. ft./hr	10,308
48"	550 lbs	48.00"	39.06"	22.00"	16.00"	54.00"	59.38"	683 cu. ft./hr	19,343
60"	1,100 lbs	60.00"	45.31"	23.00"	20.00"	66.00"	73.00"	1,065 cu. ft./hr	30,161
72"	1,500 lbs	72.00"	51.88"	26.56"	24.00"	78.00"	84.00"	1,536 cu. ft./hr	43,500

POWER REQUIREMENTS - NOMINAL CURRENT

Unit Size	230 Volts	460 Volts	Horsepower
24"	1.50	0.75	.052
36"	4.00	2.00	1.50
48"	5.80	2.90	2.20
60"	6.00	3.00	2.20
72"	12.00	6.00	4.40

Schenck AccuRate

746 E. Milwaukee Street
 Whitewater, WI 53190
 800-558-0184 or Fax: 262-473-4384
 E-mail: mktg@accuratefeeders.com
 Web site: www.accuratefeeders.com

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